RobotPilot_DF/RP/BP

Digital Fixture Rack Position & Picking Bin Picking



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Vision Guide Handling and Loading/Unloading Solution

OEM:Stamping Shop,Body Shop,Battery Shop;Tier 1 Supplier





ISV vision guide handling and loading/unloading solution,based on multiple technical approaches such as image-based multi-feature positioning and 3D point cloud registration,enables robots to adaptively adjust their trajectories to pick up parts from fixtures.This solution replaces traditional manual handling methods.This solution can not only reduce the requirements for tooling design complexity but also lower labor costs,achieving cost reduction and efficiency improvement.

Solution Advantages

01 Scenario Integration

Combines multiple technical approaches,covering various material handling scenarios.

02 Universal Efficiency

Suitable for standard logistics racks,with status monitoring capabilities.

03 Stability and Reliability

Provides customized automated pick-up solutions, reducing workstation failure rates.

Application Scenarios

01 Digital Fixture

Widely used in scenarios such as picking up orderly arranged parts on racks and EMS-loaded parts.

02 Bin Picking

Widely used in scenarios such as picking up randomly stacked parts in bins and belt conveyor-stacked parts.

03 Rack Position & Picking

Widely used in scenarios such as picking up parts without machining features and those with different paint colors,as well as at the end of stamping lines and for Tier 1 component assembly packaging.



